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PODZEY, Anatoliy Vladimirovich; SULIMA, Andrey Mikhaylovich; FIRAGO,
Valentin Petrovich; TSUKANOV, Ivan Semenovich; KUINDZHI, A.A.,
inzhener, retsenzent; STANKEVICH, V.G.,inzhener, redaktor;
BELITSKAYA, A.M., redaktor; SHCHERBAKOV, P.V., tekhnicheskiy redaktor

[Technology of building aviation engines; the processing of
principal parts and units] Tekhnologiia aviadvigatelestroeniia;
obrabotka osmovnykh detalei i uzlov. Pod red. A.V. Podzeia. Moskva,
Gos. izd-vo obor. promyshl., 1957. 415 p.

(Airplanes--Engines)

SOV-129-58-6-5/17

AUTHORS: Kishkin, S. T. (Dr. Tech. Sci. Prof.), Elypin, A. A. and Sulima, A. M. (Cands. Tech. Sci.)

Influence of the Plastic Deformation on the High Temperature Strength of the Alloy EI437 (Vliyaniye plasticheskoy deformatsii na zharoprochnost' splava E1437) TITLE:

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 6,

pp 18-21 (USSR)

The aim of the here-described work was to study the results are described. The authors arrived at the following conclusions: (1) The plastic deformation has an important influence on the service life of dispersion hardened. ABSTRACT: tant influence on the service life of dispersion hardened high temperature alloys of the type EI437, reducing the service life considerably at 700 to 80000. (2) The influence of plactic deformation is limited. of plastic deformation is linked with an acceleration of the diffusion processes which form the basis of dispersion hardening and which lead to a decrease in the breaking strength; at low temperatures when there is no appreciable acceleration of the diffusion processes, the factor of breaking up of the grains of the metal into blocks pre-Card 1/2

SULIMA, A.M.; YEVSTIGNEYEV, M.I.; TRUSOV, V.M.

The VIU-1 NAI-VIAM high-power high-power high-frequency unit used for endurance and vibration tests of parts and units of jet engines and aircraft materials. Nauch. dokl. vys. shkoly; mash. i prib.

(MIRA 12:12)

(Tasting machines)

(Airplanes—Turbojet engines—Testing)

ADDRESS (1995年) (1995年) (1995年) (1995年) (1995年) (1996年) (1996

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AUTHORS:

8/535/60/000/129/005/006 E193/580

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Sulima, A.M., Yevstigneyev, M.I., Zhukov, S.L.,

Candidates of Technical Sciences, Shadskiy, I.A. and

Zhukov, N.D., Engineers

Investigation of endurance of titanium-base and other TITLE:

heat-resistant alloys tested on the BNY-1 MAN-BNAM (VIU-1 MAI-VIAM) machine under high frequency loads

PERIODICAL: Moscow. Aviats onnyy institut. Trudy, No.129, 1960. Issledovaniye fizikomekhanicheskikh i ekspluatatsionnych

svoystv detaley posle obrabotki, pp. 92-111

The object of the investigation described in the TEXT: present paper was to determine the endurance limit of a titanium alloy 873-1 (VT3-1) and two nickel-base alloys of the 90617(EI617) and MC6K (ZhS6K) type, and to study the effect of the frequency of alternating loads on this property. The main shortcoming of the conventional fatigue testing methods is that the test conditions bear little relation to the conditions obtaining in service; in addition, they are time-consuming. 4-5 months of continuous work being required to construct on fatigue curve. It was for these reasons that a high frequency testing machine (VIU-1 MAI-VIAM) was Card 1/9

Investigation of endurance of ...

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used in the present investigation. The machine (whose detailed description is given) is of the resonance type and was designed for single-plane bending fatigue tests which can be carried out under the conditions of both imposed and resonance vibrations. The vibrations, generated by a powerful electromagnetic system consisting of an amplifier and a transformer, are transmitted to the test piece through a heavy beam, capable of producing alternating loads which are sufficiently high to break standard test pieces or even actual components, such as turbine blades. The auxiliary equipment consists of a microscope used for setting the test piece and for measuring the vibration amplitude which at high temperatures is measured with the aid of a cathetometer, and an electrical resistance furnace for high temperature work. Before testing, the test pieces were heat treated according to schedules The tests were carried out on cylindrical test given in Table 2. pieces of the cantilever type. The gauge length ℓ of the test pieces varied depending on the load frequency and test temperature, and was calculated from the formula

Card 2/9

 $= \sqrt{\frac{(1.8751)^2}{2 \text{ ft}}} \sqrt{\frac{EJ}{m}}$

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Investigation of endurance of ...

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where f is the gibration frequency per sec, E the modulus of elasticity (kg/mm²), J the moment of inertia (mm²), and m mass per unit length (kg.sec²/mm²). The tests were conducted on a base N = 108 cycles in the case of the EI617 and ZhS6K alloys, and 10 and 10 cycles in the case of the VT3-1 alloy. Each fatigue curve was constructed from data obtained on eight test pieces. In the first test of each series a was used, where so is the U.T.S. of the alloy tested; in each subsequent test the applied stress was lowered by 2 kg/mm². The vibration amplitude, A (mm), required to produce a given formula

 $A = 0.5682 \left| \frac{\ell^2}{Ed} \right| \sigma,$

where ℓ and d are the length and diameter of the specimen, respectively, E the modulus of elasticity (kg/mm²), and σ_1 the applied stress (kg/mm²). The results are reproduced in Figs.10-13, where the stress σ_1 (kg/mm²) is plotted against the number of cycles to fracture. The fatigue curves in Fig.10 relate to alloy EI617, tested at 20°C under the following conditions: (1) testing Card 3/9

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Investigation of endurance of ...

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machine of the Γ3ΜΠ(GZIP) type (bending of the revolving specimen), load frequency f = 50 cycles/sec; (2) testing machine of the $\Pi - 39$ (P-391) type (bending of a revolving specimen), f = 200 cycles/sec, (3) testing machine VIU-1 MAI-VIAm (single plane bending), f = 1000 cycles/sec. The fatigue curves in Fig.11 relate to alloy ZhS6K tested at 20°C, the testing conditions for curves 1-3 being the same as in Fig.10. | The results, reproduced in Fig.12 relate to alloy VT3-1 tested under the following conditions: curve 1 - testing machine VIU-1 MAI-VIAM, f = 1100 cycles/sec, t = 20°C; curve 2 - same as for curve 1, except f = 420 cycles/sec; curve 3 - testing machine GZIP, f = 50 cycles/sec, t = 20°C; curve 4 - testing machine VIU-1 MAI-VIAM, f = 420 cycles/sec, t = 400°C. Fig.13 shows the fatigue curves of the VT3-1 alloy, tested at 20°C on the VIU-1 MAI-VIAM machine, curves 1-3 relating to tests carried out at f = 450, 1100 and 1650 cycles/sec, respectively; these are the most significant results of the present investigation, showing that the endurance limit of the alloys studied increased with increasing load frequency. Metallographic examination of the fatigue test pieces in the region of fracture revealed no changes in the microstructure Card 4/9

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due to increased loading frequency. The fatigue cracks were trans-crystalline, and only in the zone of final fracture were intergranular cracking and some degree of plastic deformation of the grains observed. It was concluded that both the equipment used and the method employed by the present authors are suitable for fatigue testing under high frequency loading and give reliable results which can be used as design data in the production of turbine and compressor blades, operating under high frequency loads. There are 15 figures, 5 tables and 6 references: 1 Soviet and 5 English. The English-language references read as follows: Lomas T., Ward I., Rait, I., Colbeck E., International Conference on Fatigue of Metals, London, Sept., 1956; Krouse G., Proc. ASTM, 34, 1934, II, 156; Jenkin C. and Lehman G., Proc. Roy. Soc., 125, 1929, 83; Wade A and Grootenhuis P., International Conference on Fatigue of Metals, London, Sept., 1956.

Card 5/9

321,0h s/535/61/000/140/005/006 D240/D304

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AUTHORS:

4016 1413

Sulima, A.M., Candidate of Technical Sciences, Yevstigneyev, M.I. and Rakhmarova, M.S.

TITLE:

Investigating the effect of technological factors on the endurance of retractory alloys in high-frequency loading

Moscow. Aviatsionnyy institut. Trudy, no. 140. Tekhnologicheskiye metody povysheniya kachestva detaley i SOURCE

uzlov aviadvigateley. 1961, 71-112

TEXT: The authors deal with investigating the effect of 7 different methods of treatment on the durable strength of the alloys 3/617 (E1617) and 3N 867 (E1867). The methods are: Milling with subsequent polishing; milling with subsequent grinding; mechanical polishing preceied by grinding and milling; electro-polishing preceded by mechanical polishing, grinding and milling, etc. A detailed description of the methods of treatment employed is given, with numerical data, such as the size of the cutter, velocity etc. Abstracter's note: The specimens

Card 1/3/2

S/535/61/000/140/005/006 D240/D304

Investigating the effect ...

are described as "plane and rectangular" in the text but their actual shape is as in Fig. 14]. All tests were carried out on an electrodynamical vibrator which is described in detail. For heating specimens, in the process of testing, a special high-temperature resistance furnace was used which is also described. Thermal calibration of the specimens was made before testing. After the mechanical treatment, the depth of work hardening and the residual stresses were determined, the former by an X-ray method and the latter by N.N. Davidenkov's method; details of the results are given. The specimens were tested for endurance on bending, with the frequency of resonance vibrations of the order of 850-1000 cycles, at 850 C. Graphs of the results are given. It was found that the endurance depends on the method of treatment and is increased by finishing methods which reduce the residual tensile stresses and the depth of work hardening. The authors recommend electric and mechanical polishing. Thermal treatment also increases the limit of durable strength, there are 26 figures, 5 tables and 15 soviet-bloc references.

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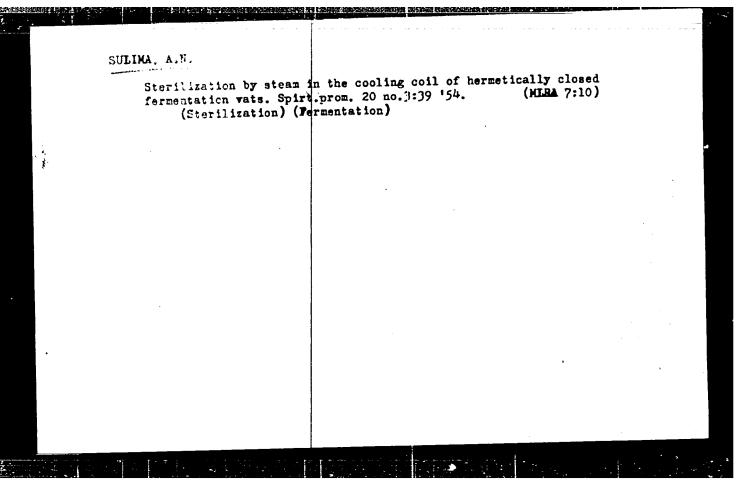
ENT(d)/SNT(m)/ENP(w)/EPF(c)/ENP(a)/ENP(d)/ENP(v)/ENP(j)/T/ENP(t)/ ENP(k)/EPA(bb)-2/EMP(b)/EMP(1)/EMA(b)/EMA(c)/EMP(1)/EPF(n)-2 Pc-4/Pf-4/Peb/ ECOK EXPLOITATION Pu-4 ACCESSION NR ANSOO2547 Virstigneyev, H. I. (Docent); Morozov, I. A. (Docent); Podzey, A. V. (Professor, Doctor of Technical Sciences); Sulima, A. M. Docent); Tsukanov, I. S. (Docent) Production of basic parts and units of aircraft angines (Irgotovieniye osnovnykh detaley i uzlov aviadvigateley), Moscow, Izd-vo "Mashinostroyeniye", 1964, 456 p. illus., biblio. Errata slip inserted. 5,200 copies printed. Series note: Tekhnologiya aviadvigatelestroyeniya TOPIC TAGS: sircraft engine manufacture, turbite blade, angine compressor, quality control, plastics, nuclear propulsion, sircraft fuel supply, combustion chamber PURFOSE AND COVERAGE: This book is a textbook for students of aviation higher educational institutions and departments. It duals with the engineering processes of fabricating parts and components of aircraft engines. The book considers their design features, the technical specification for fabrication and materials, the engineering processes, methods of executing the basic processes, and quality control. The book will also be useful to engineers and technicians of the eviation industry. Card 1/3

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Ch. IX. Processing the heads of Ch. IX. Processing fuel systems. Ch. II. Fabrication of tubing; Ch. XII. Fabrication of parts a Ch. XIII. Fabrication of heat-	flexible hose	from plantics 399	. h27
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Sibliography 452			
Card 2/3			
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ENT(1)/ENT(m)/ENP(w)/ENP(t)/UTI__NJP(c)__JD/JG___ 07810-67 SOURCE CODE: UN/0137/66/000/001/1082/1082 ACC NRI ARGO17496 55 AUTHOR: Sulima, A. M. TITLE: | Fatigue of high-temperature and refractory alloys with high-frequency loading at working temperatures SOURCE: Ref. zh. Metallurgiya, Abs. 11560 REF SOURCE: Tr. Kuybyshevsk. aviats, in-t, vyp. 1.9, 1965, 355-380 TOPIC TAGS: vibration test, fatigue test, high temperature alloy, refractory alloy ABSTRACT: Fatigue was studied on two types of high-frequency stands with resonance excitation: electrodynamic and magnetostriction with working frequency ranges of 100-3000 and 5000-10,000 cps respectively. The specimens were fatigue tested under symetric cantilever bending with a constant deformation amplitude. The fatigue tests were done at 20 and 250°C on AK4-1 alloy, 20 and 500°C on VT10, 20, 500 and 550°C on EI961, 20, 800 and 850°C on EI617, 20, 800, 850 and 950°C on EI867, 20 and 900°C on EP109, 20, 800 and 900°C on EI929, 20 and 900°C on EP57, 20, 900 and 1,000°C on ZhS6K, and 20 and 950°C on ZhS6-KP. These alloys showed maximum resistance to fatigue fail-78 ure in the 100-2000 cps loading frequency range. Fatigue resistance is reduced by a further increase in frequency. EP57, ZhS6KP and WhS6K refractory alloys show extremely stable fatigue characteristics under high-frequency loading. The shape of the UDC: 669.018.45:620.17 **Card 1/2**

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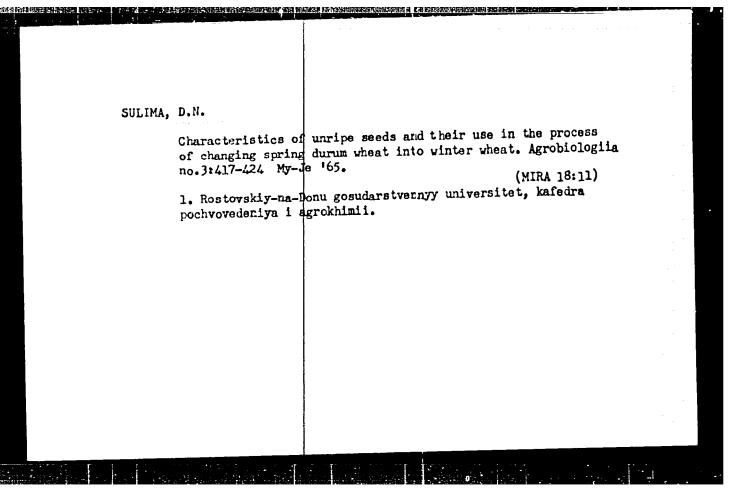


FEDOSEYEV, V.M.; SULIMA, A.V.; SILAYEV, A.B.

S derivatives of thlourea. Part 6: 2,3-Di(isothiuronium bromide)-propanol and its ethers. Zhur.ob.khim.

32 no.10:3432-3439 0 '62. (MIRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni
M.V. Lomonosova. (Pseudourea) (Propanol)

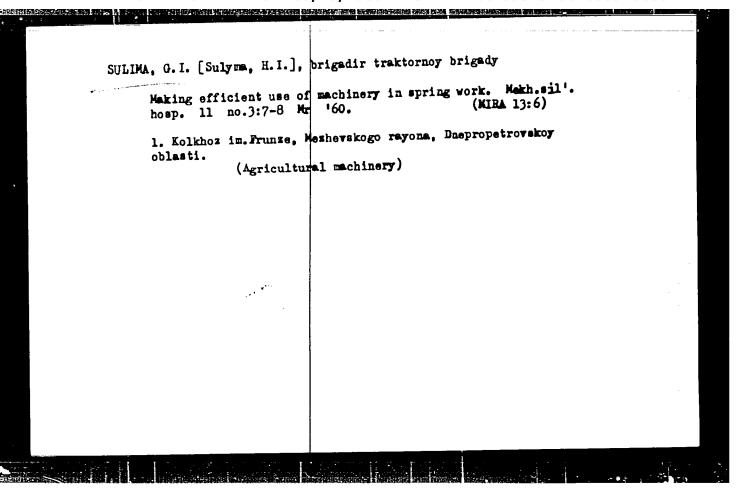


SULIMA, G.I. [Sulyma, H.I.], brigadir

In the campaign for no.4:6-8 Ap '59.

1.Traktornaya brigada kolkhosa im. Frumse, Meshevskiy rayon, Daspropetrovskoy oblasti.

(Farm mechanization)



VASHCHENKO, V. S., inzh.; LINNIK, G. F., dotsent; NIKULIN, S. Ye., dotsent; SULIMA, G. S., inzh.; KUCHERYAVENKO, I. A., inzh.

Improving stoping operations in the "Gigant" Mine. Izv. vys. ucheb. zav.; gor. zhur. no.10:13-17 '61.

1. Krivorozhskaya shakhta "Gigant" (for Vashchenko).
2. Krivorozhskiy gornorudnyy institut (for Linnik, Nikulin, Sulima, Kucheryavenko). Rekomendovana kafedroy razrabotki rudnykh mestorozheniy polesnykh iskopayemykh Krivorozhskogo gornorudnogo instituts.

(Krivoy Rog Basin—Stoping(Mining))

MALAKHOV, G.M., prof., doktor
A.R.; VASHCHEMKO, V.S.; NIKULIN, S.Ye., kand.tekhn.nauk;
LINNIK, G.F., kand tekhn.nauk; LAVHINENKO, V.F., kand.tekhn.nauk;
SULIMA, G.S., gornyy inzh.

Breaking ore in a
was not worthwhile

1. Glavnyy inzh. rudoupravleniya im. Dzerzhinskogo (for Zheltetskiy).
2. Zaveduyushchiy
(for Chernenko).
im. Dzerzhinskogo
(Krivoy Rog Basin--Mining engineering)

LINNIK, G.P., kand. tekhn. nauk; MIKULIN, S.Ye., kand. tekhn. nauk;

SULIMA, G.S., inzh.

Maintaining scraper level workings in conditions of increased rock pressure. Met. i gornorud. prom. no.6:45-48 N-D '62.

(MIRA 17:8)

1. Institut avtomatiki Gosplana UkrSSR (for Linnik).

2. Krivorozhskiy gornorudnyy institut (for Nikulin, Sulima).

LINNIK, G.F., kand. tekhn. nauk;
SULIMA, G.S., inzh.; SA DOVOY, I.P., inzh.

Certain results of the Dzerzhinskii mine. Izv. vys. ucheb. zav.; gor. zhur. 6 no.9;
94 '63.

1. Institut avtomatiki Gosplana UkrSSR (for Linnik).
2. Krivorozhskiy gornojudnyy institut (for Nikulin, Sulima, Sadovoy). Rekomendovaha kafedroy shakhtostroyeniya i provedeniya gornykh vyrabotok Krivorozhskogo gornorudnogo instituta.

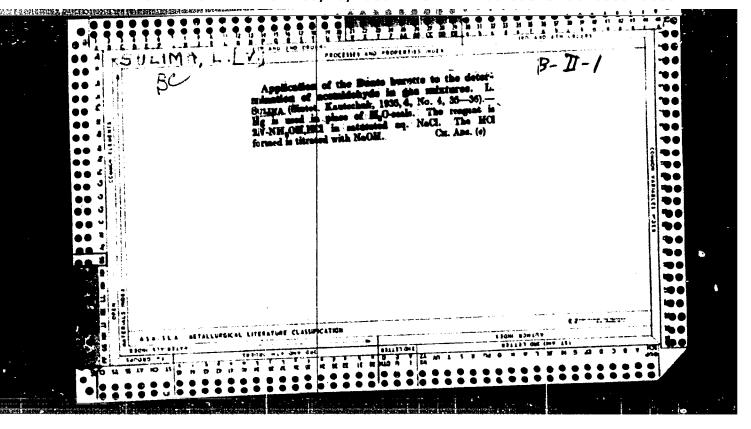
VASHCHENKO, V.S., inzh.; SHMALIY, V.Ya., inzh.; NIKULIN, S.Ye., kand. tekhn. nauk; LINNIK, G.F., kand. tekhn. nauk; SULIMA, G.S., inzh.

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Improving the operating efficiency at the "Gigant" mine. Met. 1 gornorud. prom. no.5:52-56 S-0 '63. (MIRA 16:11)

1. Shakhta "Gigant", rudnik im. Dsershinskogo (for Vashchenko, Shmaliy). 2. Krivorozhskiy gornorudnyy institut (for Nikulin). 3. Institut avtomatiki Gosplana UkrSSR (for Linnik). 4. Krivorozhskiy gornorudnyy tekhnikum (for Sulima).

SULIMA, I.M. (Sulyma, I.M.):		TOLOTRO, D.K.								
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SULIMA, L.V.	USSR/Chemistry - Isotopic Exchange 21 (Contd) of exchange by freezing out or pptg with and det content of deuterium. Draws up escribing kinetics of process.		Direct exchange of hydrogen of ammonium ion with water is either absent or very slow: Exchange proceeds over free ammonia formed by hydrolysis. Confirms this by detn of rate of exchange in ammonia nitrate, sulfate, and chloride both in presence absence of acid. Isolated salt at different states.	"Delayed Exchange of Hydrogen in Solutions of monia Salts," A. I. Brodskiy, Corr Mem, Acad in Tuser, L. V. Sulima, Inst Phys Chem imeni L. V. Plaarzhevskiy	
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SULIMA, L.V.; BRCDSKIY, A.I.

Rate of hydrogen exchange in dissolved amnonium salts. Ukr.khim.zhur.
17 no.2:165-172 '51.

1. Institut fisicheskoy khimii AN USSR.
(Hydrogen) (Amnonium salts)

PRODSKIY, A. I.; SULD'A. L. V.

Tautomerism

Tautomerism of hypophosphorous and phosphorous acids. Dokl. AN SSSR 85, No. 6, 1952.

9. Monthly List of Bussian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

DEFINITION OF THE PROPERTY OF žoltlý SULIMÁ, L. V. Jun 53 USSR/Chemistry - Phosphorus Compounds, Deuterium "Hydrogen Exchange and Tautomerism of Hypophosphorous and Phosphorous Acids," A.I. Brodskiy, L.V. Sulima, Inst Phys Chem im L.V. Pisarzhevskiy, Acad Sci Ukr Ukrain Khim Zhur, Vol 19, No 3, pp 247-254 The study of the exchange in P-H groups of H for the deuterium of heavy water showed that tautomerism is absent in the anion of hypophosphorous acid, in phosphorous acid, and in the anion of phosphorous acid and that it is present in undissociated hypophosphorous 261T15 acid. The rate const of the tautomeric transformation of hypophosphorous acid was detd. Confirmation of the explanation offered earlier for the slow hydrogen exchange in soln was obtained.

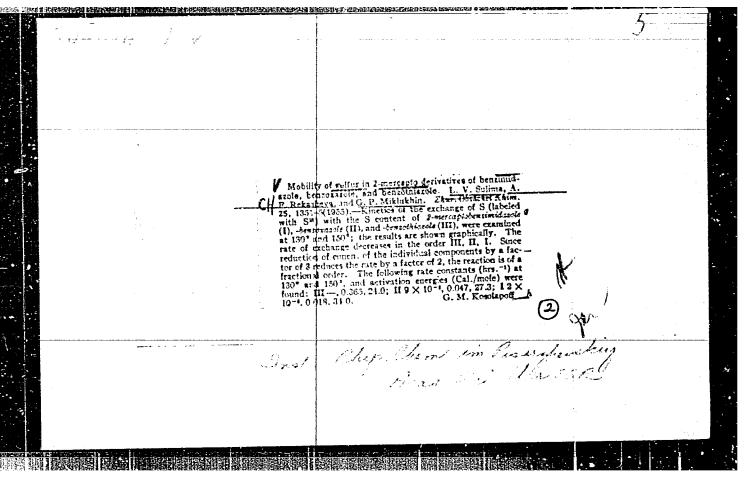
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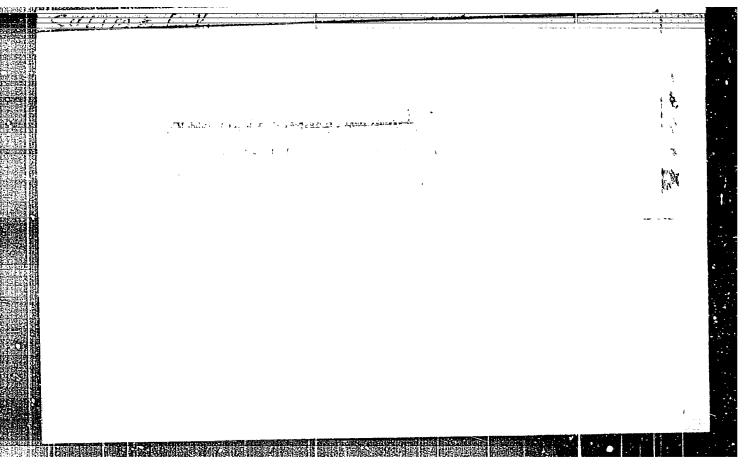
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SULIMA, L. V. "Investigation of the Mechanism of Exchange of Hydrogen and Oxygen in Salts of Ammonia and the Phosphorus Acids, and the Tautomerism of the Latter," Acad Sci Ukrainian SSR. Inst of Physical Chemistry imeni L. V. Pisarzhevskiy. Kiev. 1954. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN GHEMICAL SCIENCE.)

So.: Knizhnaya letopis' No. 27, July 2, 1955.





MIKLUKHIN, C.P. [doceased];

Mebility of sulfur in thisphosphorus-erganic compounds. Trialkythismophesphates and dialkylthisphosphates. Dekl.AN SSSR 106 nc.5:848-850 F (MIRA 9:7)

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"Idotopic Exchange of Oxygen, N P. 20.	itrogen, and Sulfur in Solutions, and Its Mechanism."
and All-Union Sci. Tech. Conf. Radiation in National Economy	n Chemistry, Collection of papers of on Use of Radioactive and Stable Isotopes and and Science, Moscow, Izd-vo AN SSSR,1958, 380pp.
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:	Transactions of the Tashkent (Cont.) SOV/5410	* · · · · · · · · · · · · · · · · · · ·	
a - An-company of the Company of the	instruments used, such as automatic regulators, flormeters, level guges, and high-sensitivity gomes-relays, are described. No personalities are mentioned. References follow individual articles.		
	TABLE OF CONTENTS:		
	RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN ENGINEERING AND GEOLOGY		-
	Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan	7	
	Teksor, I. N., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Cypification of Automatic-Control Apparatus Based on the Use of		
;	Radioactive Isotopes	9	
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Neverther, A. I. [Tairhikm kiy gosudarstvennyy universitet im. I. Lenin]. Co- I. I. Inima-Tairhik State University imeni V. I. Lenin]. Co- I. I. Inima-Tairhik State University imeni V. I. Lenin]. 349 Inima-Tairhikm kiy gosudarstvennyy universitet im. Neverther, A. I. [Tairhikm kiy gosudarstvennyy universitet im. 349 Ampliegova, N. I. [Radiyevyy institut im. V. G. Khlopina		Service A. A. K. W. Chriter, and P. P. Handler Addorp and et la vical Chemistry AS UCCA]. Study of the Addorp and Earl-Earth Elements on Black Earth by the	tion	•.
Artilogova, N. I. (Radiyevyy institut im. V. G. Milopina	:	The right of Small Quantities of Various Cations and	349	
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S/301/62/000/001/004/067 B156/B101

AUTHORS:

brodskiy, A. I., Gragerov, I. P., Franchuk, I. F., Sulima, L.V.,

Rukhtenko, I. I., Lunenok, V. A., Fomenko, A. S.,

Aleksankin, M. A.

TIPLE:

Mechanism of ox dation reactions investigated by the isotopic

method

PERIODICAL:

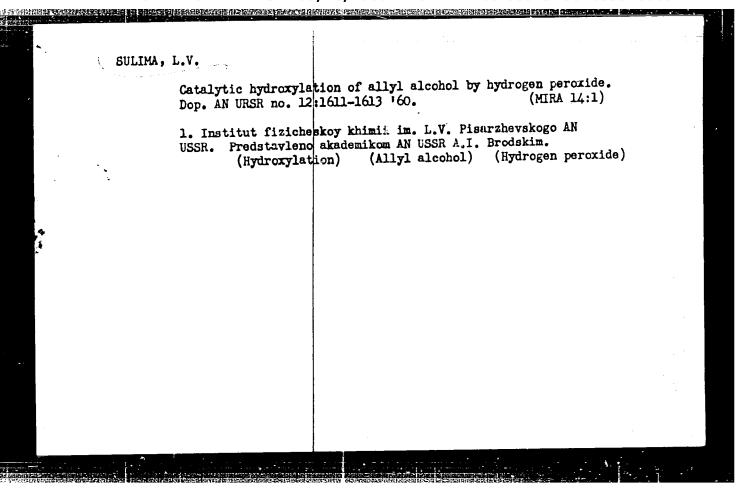
Referativnyy zhurnal. Khimiya, no. 1, 1962, 60, abstract
18439 (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu

somm. energii, v. 2. Tashkent, AN UzSSR, 1960, 327-334)

TEXT: A review of work done by the authors on studying the mechanism of certain oxidation reactions using isotopes: the oxidation of organic compounds with chromyl chloride, the mechanism of anthranil regrouping, the process of oxidation of aniline, o-anisidine and p-nitroaniline with Caro acid. The mechanism whereby hydrogen peroxide and certain persulfate-type inorganic peroxide compounds are formed and converted is examined; so also are the kinetics of isotopic exchange in substituted benzoic acids,

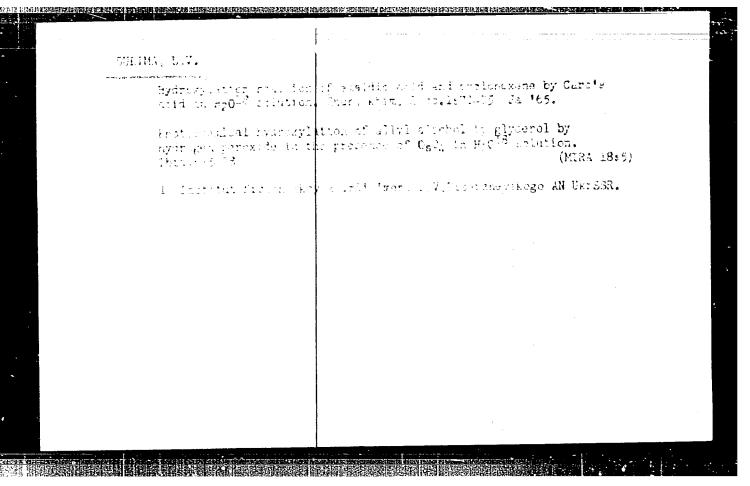
Card 1/2

Mechanism of oxidation reaction benzaldehydes, alcohols, napht 18 references. Abstracter's	ns halenes and nitro note: Complete tr	S/081/62/000/001/004/06? B156/B101 compounds with H ₂ 0 ¹⁸ .	
Card 2/2			



SULIMA, L.V.		
Mechanism of the hydrogen perconnection of the hydrogen perconnect	the catalytic hydroxylation of allyl alcohol by cide. Zhur. ob. khim. 31 no.3:891-895 Mr 161. (MIRA 14:3)	
l. Institut fi (Allyl alco	zicheskoy khimii AN USSR. hol) (Hydroxylation)(Hydrogen peroxide)	
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SULIMA	, L.V.			
	Hydroxylation of allyl alcohol of mercury and its compounds.	by hydrogen peroxide in the Zhur. ob, khim. 32 no.1:	the presence 307-309 Ja '62 'MIRA 15:2)	
	(Allyl alcohol)	(Hydroxylation)	(
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GELLER, B.A.; NEYMARK, I.Ye.; RUBANIK, M.Ya.; GRAGEROV, I.P.; POLYAKOV, M.Y.; RUSOV, M.T., DAIN, B.Ya.; REKASHEVA, A.F.; STRAZHESKO, D.N.; LUNENOK, V.A.; ROYTER, V.A.; SULIMA, L.V.; FOMENKO, A.S.

Aleksandr Il'ich Brodskii, 1895-; on his seventieth birthday.
Zhur. fiz. khim. 39 no.6:1540-1541 Je '65. (MIRA 18:11)

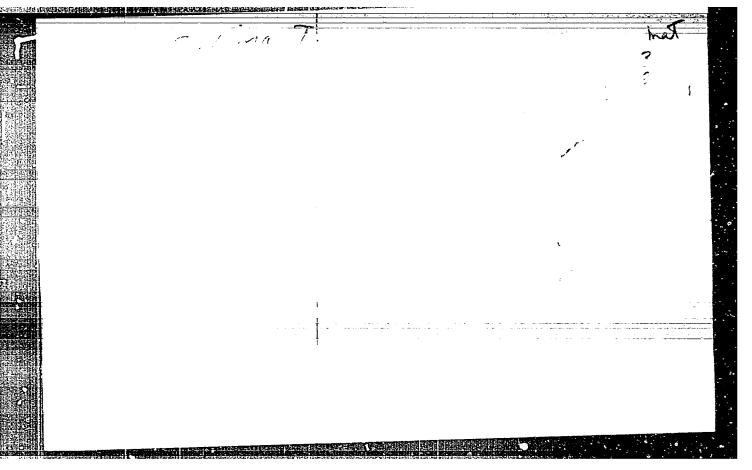
CHUCHINA, M.K., inzh.; SULIMA; N.T., inzh.; LOPATIN, V.F., inzh.; CHERKASOV, V.G., inzh.

Commentary on the article by Engineer E.V.Liul'ko "Regulating the computation and payment of general mine expenses in mining."
Shakht.stroi. 5 no.4:22-30 Ap '61. (MIRA 14:5)

1. Trest Makeyevshakhttstroy (for Sulima). 2. Institut Kuzbassgiproshakht (for Lopatin).
3. Ukrainskiy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva (for Cherkasov).

(Mining industry and ffmunce)
(Liul'ko, E.V.)

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653910005-1



38591 5/081/62/000/010/074/085 B166/B144

15.5314

AUTHORS:

TITLE:

Lausch, Adam, Sulima, Tadeusz, Wajda, Helona, Rodziński, Wiedyslaw, Matysikiewicz, Stanislaw, Nikodem, Jan, Okrasa,

A method of producing varnish for impregnating fabric in the

production of electrical insulating panels

Referativny, zhurnal. Khimiya, no. 10, 1962, 635, abstract PERIODICAL:

10P239 (Polish Patent 44508, June 7, 1961)

TEXT: The varnish for im regnating fabric to be used for electrical insulating panels is obtained by mixing a solution of epoxy resin in acetone along with an amine curing agent and a solution of phenolic resir, without free phenol, in C2H5OH with added urotrupine. The special feature

of this method is the use of a phenolic resin with the free phenol removed by toluene extraction. Electrical insulating panels made with the aforesaid varnish show high mechanical strength and heat resistance up to 180°C. Example. A solution is prepared with 51.5 parts by weight epoxy

Card 1/2

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653910005-1"

FOLAND/Chemical Technol gy - Chemical Products and Their Synthetic Polymers. Plastics.

Abs Jour : Ref Zhur - Phiniya, No. 9, 1950, 30775

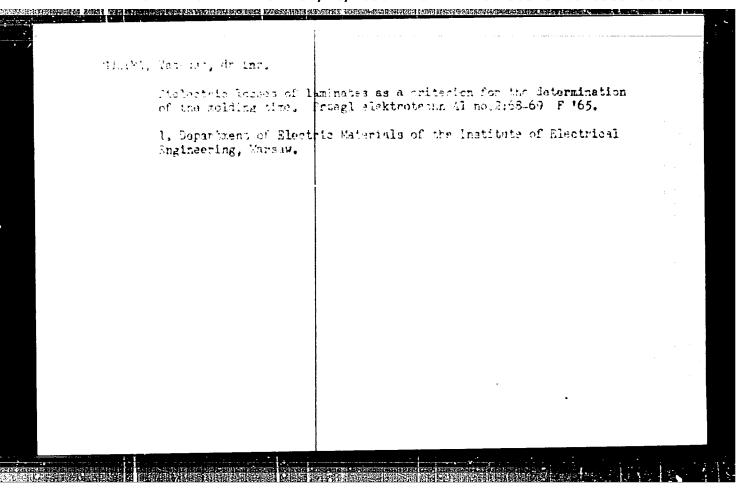
Author : Sulina, T.
Inst : Thermosetting Plastics.

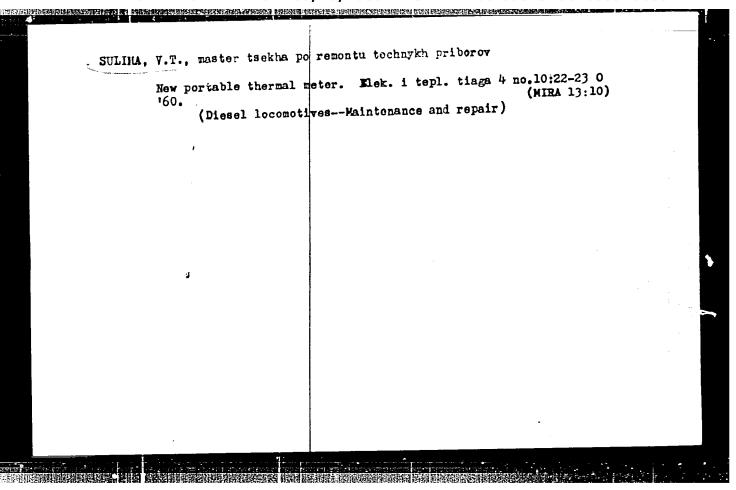
Orig Pub : Frzeglad Elektrotechn, 31, No. 10-11, 629-632, 1957.

Abstract : See RZhKhin, 1956, 11039.

i angangga di malaba n Pris	Effect of the time of pressing on the electroinsulating properties of next hardening molding mixtures. Wiad elektrotechm 34 no.1:14-15
	1. Department of Electric Materials of the Institute of Electrical Engineering, Warsaw

SULIMA,	Tadens	
in entered	Time of molding electroinnulation laminates as determined by electric measurements. Polimery tworz wielk 10 no.2:63-66 F '65.	
	1. Department of Electric Materials of the Institute of Electrical Engineering, Warsaw. Submitted September 25, 1964.	
		:
		: -





VCLISATY, T.G. (Velecky), E.)

(IECERINOV, V.E.), red; CTARRITS, J.M., red.;

ZIVARRIKO, M.R. (Kyparanko, M.M.), red.; ICZAK, Ye.I.,

red.; IALUSHA, K.V., red.; RETUREN, C.V., red.; SULIMA,

VA.F., red. (Sulyma, IAF.), red.; FAVOROV.O.M., red.

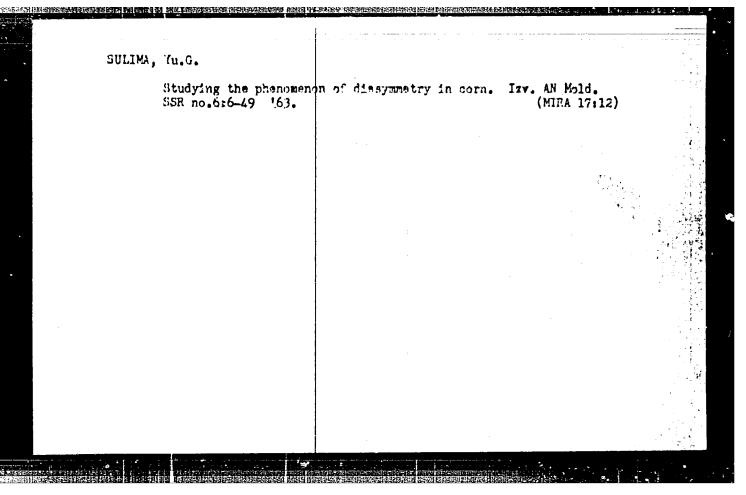
[Recommendations for the chemicalization of agriculture in

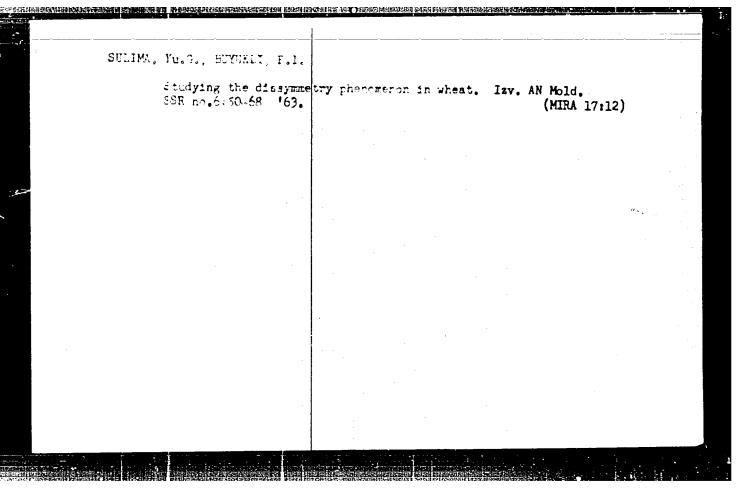
Lyov Frovince) Recommendation be khimiausid sill'skeho hospodarstva L'vivshehym. L'viv, Kameniar, 1964. 84 p.

(MIRA 17:9)

1. Naukovo-doslidnyy institut zerlerobstva i tvarymnytstva

zakhidnykh rayoniv URN.



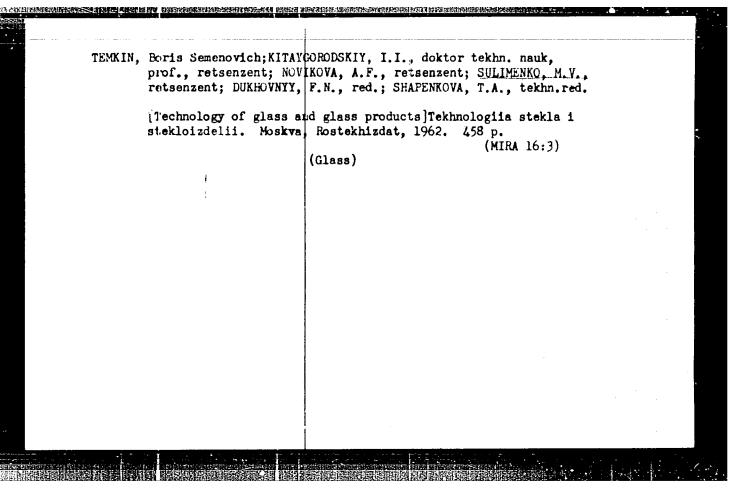


SULING SANNJILO, J. The rechanical machining of rocks for building blocks.
p. 265. Vol. 11, no. 9, Sept. 1956. MATERIALY SUDCYLANE. Warszawa, Foland.

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY SHLIMA-SAMIYLLO, A.P., prepodavatel'; EROT-ERIVAL', I.S., prepodavatel'; KOYROVISEVA, Ye.G., prepodavatel; KOYALEVA, I.H., prepodavatel; BUJROVA, O.G., prepodavatel'; LEVENTO, T.Ya., prepodavatel'; PROKHOROV, V.F., red.; ZHAVORONKOV, I.I., red.; KHITKOV, P.A., tekhn.red. [German-Russian railroad dictionary] Hemstako-rusakii shelesnodoroshnyi slovani. Sost.A.P.Sulima-Samuillo i dr. Pod red. V.F. Prokhorova. Moskve, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniis, 1960. 536 p. (MIRA 14:4) 1. Kafedra inostrannykh yazykov Moskovskogo instituta inshenerov shelesnodoroshnogo transporta (for Sulima-Samuyllo, Krot-Krival', Kovrovtseva, Kovaleva, Bugrova, Levento) (Railroads--Dictionaries) (German language -- Dictionaries -- Russian)

√ S	ULIME KO, M.				
~	Poultry houses to no.11:20-21 N	in a tics of livestock	buildings. Sel'. s' (MI	roi. 15 M 13:11)	
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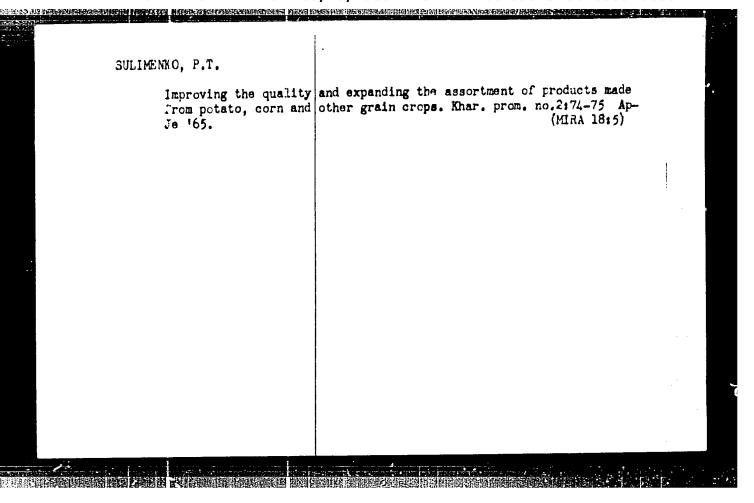


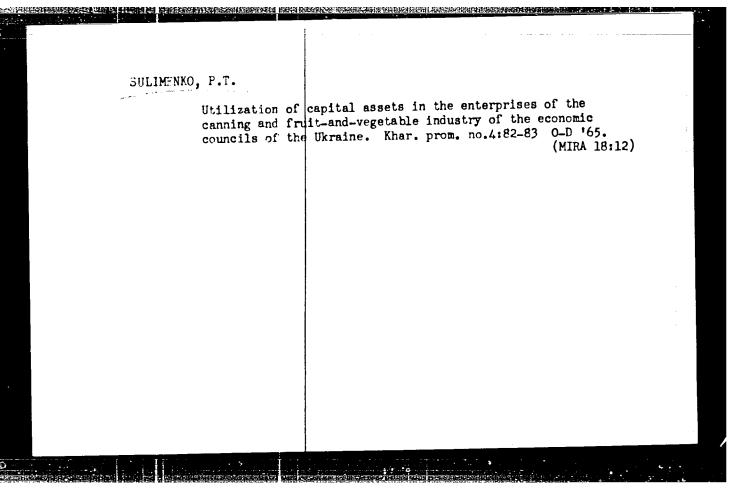
DENISOV, V.I.; SULIMENKO, P.P.; OLEYNIK, A.I.; OLEYNIK, I.I.

Machine for processing glass edges. Stek.i ker. 19 no.9:31
S '62. (MIRA 15:9)

1. Stekol'nyy zavod "Proletariy".

(Glass factories—Equipment and supplies)





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ZAVERTA	rlo, m.m.; Bazi	ov, M.K.; SU	LIMENKOV,	3.P.			
	Using water for Gaz. delo no.9	or cooling na	tural gas :	in low-temper	ature separati (MI	on units. RA 18:9)	
	1. Krasnodarsk skogo institut	dy filial Vs	soyuznogo	neftegazovog	o mauchno-isal	edovatel'-	
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20587

9.3140 (also 1140)

5/109/61/006/002/019/023 E140/E435

AUTHORS:

Bakhrakh, L.E. and Sulimin, A.D.

TITLE:

On the Design of Ribbon-Beam Electron Guns

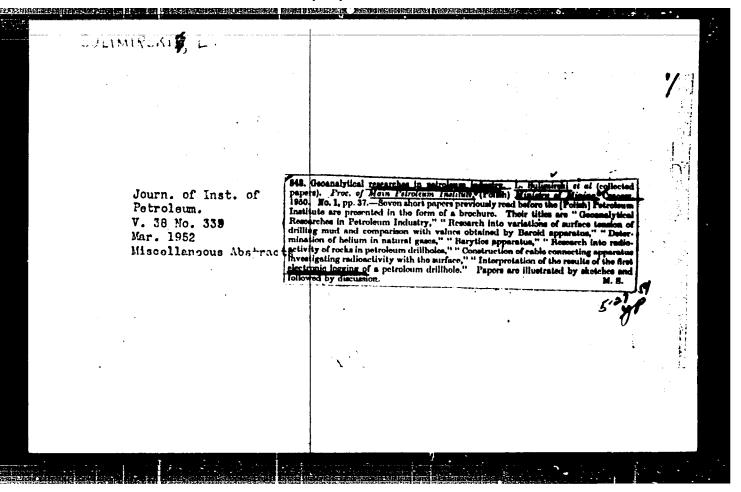
PERIODICAL: Radiotekhnika i elektronika, 1961, Vol.6, No.2,

pp.333-336

A simple derivation is given for the electrode shape TEXT: necessary to form a stable ribbon beam from a cathode analogous to a sector of the inner surface of the outer cylinder of a The derivation leads to an electrode shape cylindrical diode. somewhat different from that obtained by J.R.Pierce (Ref.1) or D.E.Radley (Ref.2). Combined analytic and graphical procedures permit determining the conditions necessary for a "waist" to appear In one experimental realization, a ribbon beam of in the beam. 50 mA at an acceleration potential 800 to 1000 V and a current passage factor of 90 to 95% was obtained through an anode opening of $1 \times 8 m$. There are 5 figures and 4 references: 1 Soviet and 3 non-Soviet.

February 18, 1960 SUBMITTED:

Card 1/1



ZHEIUPKOVA, T.N.; ZA KIAGSKIY, V.P.; SULIMO-SAMUVILO, Z.K.

Effect on the organism of a prolonged exposure to a gaseous medium with increased carbon dioxide content. Funk. org. v usl. izm. gaz. (MIRA 17:11)

sredy 3:187.192 '64.

GERTS, Genrikh [Hertz, Heinrich Endolf]; GRIGOR'YAN, A.T.; POLAK, L.S.;
KOTOV, V.F. [translator]; SULIMO-SAMUYLO, A.V. [translator];
AHTOBOLEVSKIY, I.I.,
N.D., tekhn.red.

[Principles of mechanics, presented in a new form] Printsipy
mekhaniki, islomhennye v novoi svinsi. Izd.podgotovili A.T.
Grigor'ian, L.S.Polak, Obshchafa red. I.I.Artobolevskogo.
[Translated from the
1959. 386 p.

(Mechanics, Analytic)

 $EMG(\frac{1}{2})-2/EMG(c)/EMG(\frac{1}{2})/EMG(r)/$ Pb-4/ AFFTO/ AFMOC/AMD/APGC DR UR/3147/64/003/000/0187/0192 ACCESSION NR: AT5010615 AUTHOR: Zheludkova, T. N.; Zegryadskiy, V. P.; Sulino-Samuyllo, Z. K. TITLE: Effect of a prolonged stay in a gas medium with an increased CO content on the organism SOURCE: AN SUSR. Institut erelyutsionnov fiziologii. Funktsii organizma f usloviyakh izmenennoy gazovoy sredy, v. 3, 1964, 187-192 TOPIC TAGS: :arbon dioxide effect, prolonged exposure, increased oxygen pressure, respiration, biological effect, respiration, EG. EE, body temperature, central nervous system ABSTRACT: Experiments were performed on rabbits in a pressure chamber to . is at the . We as if a try is phenical containing 3-5% carbon dioxide, with a ে no all exegen content on with an exegen content increased to ৭০%. 🗚 and ial venti aling device was affached to the chamber to prevent the carwho is a registry at the State of ency and amplitude of The second of th net of addition, analysis of the blood was performed. The rabbits were region a 3-5% carbon dioxide atmosphere for periods of 6 and 12 hr.

L 42182-65		/)-	
ACCESSION NF: AT5010615			
It was found that the re	espiration, cardiac activity	e, and thermoregu-	锁
and the second of the second	ਾਰੂ)ਵ ਕਾਰਤੀਰ ਬ੍ਰੀਰਿਕਰੀ ਰ ਦੀ ਹਨ। ਜਿਲ੍ਹੇ -	continuate are quickly	
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	e on . The Abita Thespor Jess problemoed that with	ratery and therms.	
ASSOCIATION: none	note the antia nesportes of the second of th	a normal oxygen.	
art, sas l	n oku i erki andia i nespor Jess promi moed dhar with Gigurta	sub code: LS, PH	

THE PARTY AND SAFETHER DECISION SET, ASSESSMENT OF TAXABLE PARTY. SOURCE CODE: UR/0000/66/000/000/0175/0175 716036565 Zagryadskiy, V. P.; Sidorov, O. U.; Sulimo-Samuyilo, Z. K. :SCHT ORG: none TITLE: Effect of an altered gas medium on the development and course of Adecompression sickness [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 175 TOPIC TAGS: hypercapnia, decompression sickness, aeroembolism ABSTRACT: The effect of hypercapnia on the incidence and course of decompression disorders was studied in acute and chronic experiments on dogs and rats. Animals exposed to atmospheres containing 5%, 7%, and 9% CO2 were subjected to decompression from 760 mm Hg to 198 mm Hg in 2.5 to 3 min, (with pO2 maintained at 143 mm Hg). A special double cannula captured the bubbles formed in the dogs' blood. The intensity and rate of bubble formation was compared with that in air-breathing controls subjected to similar pressure drops. Card 1/2

221

L 05815-67

ACC NR:

AP6033918 (N) SOURCE CODE: UR/0177/66/000/010/0058/0061

AUTHOR: Zagryadskiy, V. P. (Lieutenant colonel, Medical corps; Candidate of medical sciences); Sidorov, O. Yu. (Lieutenant colonel, Medical corps; Candidate of medical sciences); Sulimo-Samuyllo, Z. K. (Candidate of biological sciences)

ORG: none

TITLE: Changes in human organic functions and working capacity depending on rate of increase of carbonic acid content in a hermetically sealed room

SOURCE: Voyenno-meditsinskiy zhurnal, no. 10, 1966, 58-61

TOPIC TAGS: medical research, medical experiment, carbonic acid

ABSTRACT: An investigation was made of human organic functions and working capacity in relation to prolonged (several hours) increase of carbonic acid concentration in hermetically sealed rooms. A group of young men unfit for military service were the subjects of 110 investigations. It was shown that the lower the rate of increase of carbonic acid concentration in the inhaled air of a hermetically-sealed room, the more gradual, complete, and perfect the action of the compensatory mechanisms in the human body. It was concluded that under conditions of relative

Card 1/2

UDC: 612, 234;62, 213, 4

L 05815-67 ACC NR: AP6033918

tranquility (hypodynamy) and moderate mental activity, the human organism can gradually compensate (in 2-5 hr) for the adverse effect of carbonic acid concentration as high as 5.5-6%, and can maintain satisfactory working ability. Elimination of hypoxy by increasing oxygen pressure to 21% improved working ability considerably. A supply of bottle oxygen must therefore be reserved in hermetically sealed rooms in case the air-changing system fails. Human reserves decrease steadily as the carbonic acid content in hermetically sealed rooms increases. Any additional physical load, or the simultaneous action of factors such as high temperature, noxious gases, etc., can impede the operation of the compensatory mechanism and accelerate the deterioration of the organism sharply. Under such conditions, permissible concentrations of carbonic acid in hermetically sealed rooms must be smaller. Further studies of this problem are suggested. Orig. a2t. has: 3 figures.

SUB CODE: 06,05/ SUBM DATE none/

表现以**的信息 迪 斯勒克斯思维克**姆拉斯的特别的国际政治的政治和国际经历的政治

Card 2/2 F-4

	ACC NRI VEPOSTEDS	SOURCE CODE:	UR/0402/66/000/003/0371/	<u> </u>
	AUTHOR: Sklynnsknya, Ye. I.; Pe	terson, O. P.; Sulimov		
	ORG: none	Make - State Beautiful State Control Control	The second secon	
	TITLE: Permeability of animal r subcutaneous infection	espiratory systems of	influenza virus after ora	l or
	SOURCE: Voprosy virusologii, no	. 3, 1966, 371	•	,
!	TOPIC TAGS: virology, medical e	xperiment, respiratory	system, virus, influenza	
	ABSTRACT: White mice were given doses of t Specific antibodies labeled with the site of virus in the body. mainly in the traches of rats an sensitive than standard methods infection is involved.	radioactive iodine we After 48 hours, the vi d the lungs of mice.	re used to determine ruses were located This method is more	,
	SUB CODE: 06/ SUBM DATE: none/			
	Card 1/1			

BELYAYEV, A.F. (Moskva); KOROTKOV, A.I. (Moskva); SULIMOV, A.A. (Moskva)

Effect of pressure on disturbances of the combustion stability
of porous explosives. PMTF no.5;117-120 S-0 '63. (MIRA 16;11)

1. Institut khimicheskoy fiziki AN SSSR.

BELYAYEV, A.F.; KOROTKOV, A.I.; PARFENOV, A.K.; SULIMOV, A.A.

Burning velocity of same explosives and mixtures at considerably increased pressures. Zhur.fiz.khim. 37 no.1:150-156 Ja '63.

1. Institut khimicheskoy fiziki AN SSSR.

(MIRA 17:3)

s/0076/64/038/002/0331/0333

ACCESSION NR: AP4019516

AUTHORS: Sulimov, A.A. (Mosdow); Korotkov, A.I. (Moscow)

TITLE: Effect of high temperature gaseous phase on the combustion

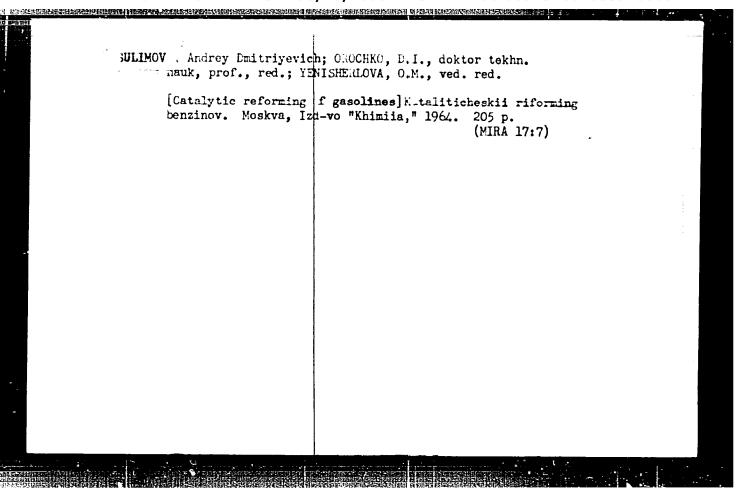
rate of nitroglycerine powder

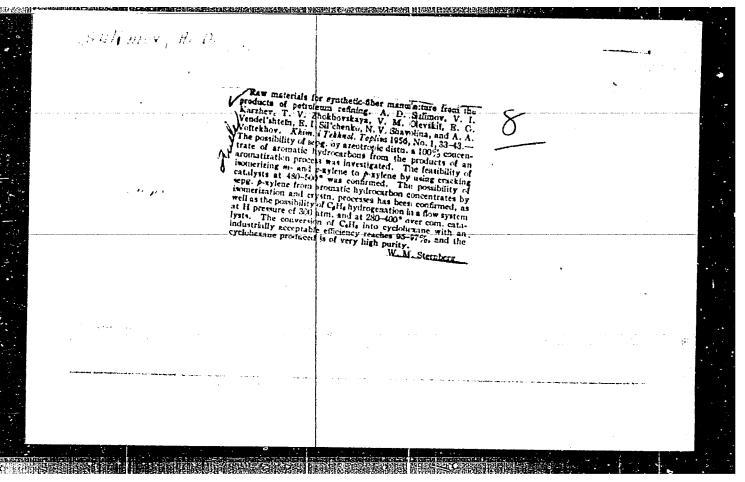
SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 2, 1964, 331-333

TOPIC TAGS: nitroglycerine powder, powder combustion rate, nitroglycerine, high temperature gaseous phase, pyroxylin

ABSTRACT: The question of how the gaseous phase of burning powder influences the combustion rate is yet unclear. Therefore, the authors undertook tests, burning two thin rectangular plates of nitroglycerine powder or of pyroxylin separated by a gap of 1 x 10 nitroglycerine between two plexiglass plates. The two plates mm and sandwiched between two plexiglass plates. The two plates were placed in a bomb with nitrogen and ignited with black powder. Burning was recorded on a movie film. It was found that when the gap was small (its width less than twice the distance from the surface to the maximum temperature zone) there was a decreasing rate of burning as compared to the normal rate which is explained by the

Card 1/2





SULINOT A.D.; LOREYEV. M.V.; LOZHINA, I.N.; AL'TSHULTR, A.Ye.; GUTMAN, A.B.;

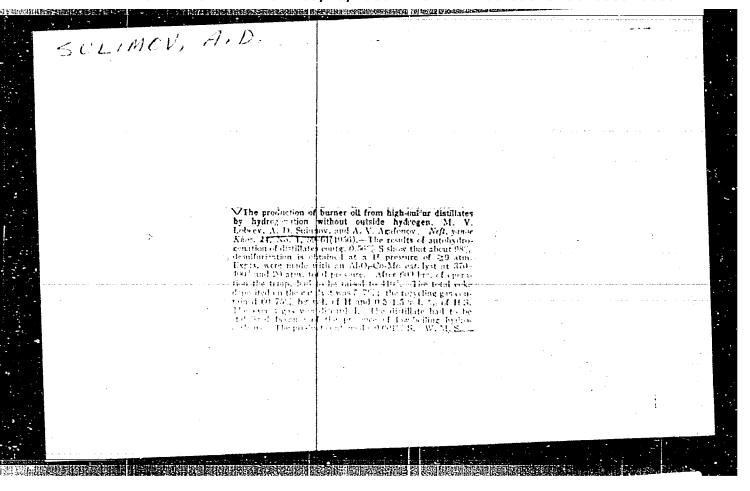
SATTUGOV, V.M.

Hydrofining of distillate fractions from Enstern petroleums without introducing hydrogen from an external source. Rhim.i tekh.topl.no.9: 1-11 S '56.

(MIRA 9:10)

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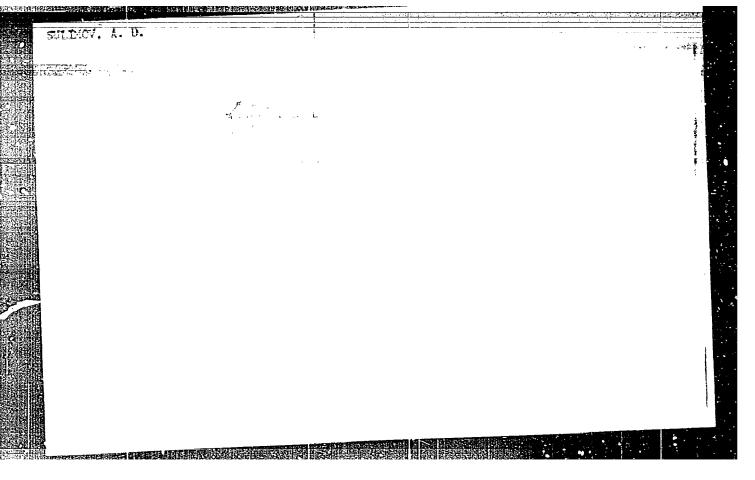
(Petroleum-Refining)



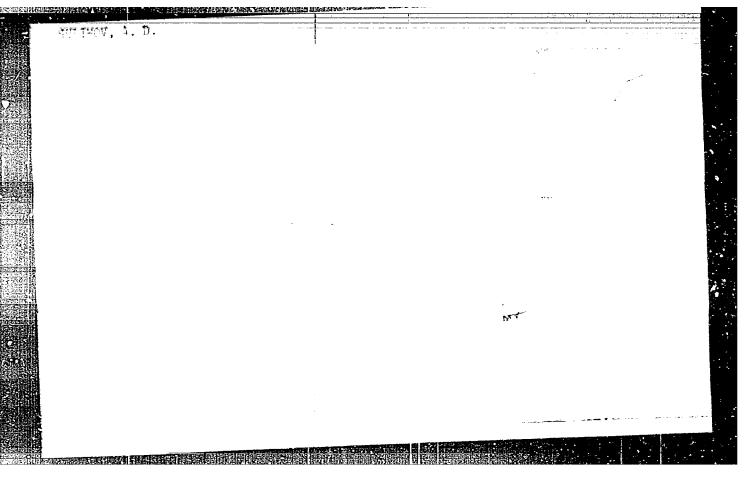
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Sovremennyy Methoda Gostopt	e metody polucheniya to of Obtaining Fuel from ekhizdat, 1957. 42 p.	ov, Andrey Dmitrijevich liv iz nefti; v pomoshch' lektoru (Modern Petroleum; Guide for the Lecturer) Moscow, (Novaya tekhnika neftyanoy promyshlennosti)	
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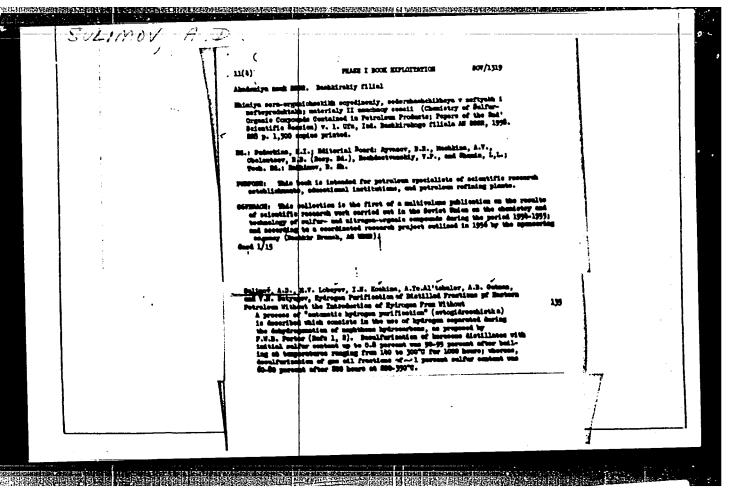
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Bibliography VI. Coking Processes Bibliography AVAILABLE: Library of Congress		35 42
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SOV/65-58-12-7/16

AUTHORS:

Sulimov, A. D. Lobeyev, N. V; Kozhina, I. N; Plguzova, L. I, and Papke, T. S.

TITLE:

The Effect of the Chemical Composition of an Aluminium-Cobalt-Molybdenum Catalyst on its Activity During Hydropurification and Auto-Hydropurification Processes (Vliyaniye khimicheskogo sostava alyumokobal tmolihdenovogo katalizatora na vego aktivnosti v protsessakh gidroochistki i avtogidroochistki)

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 12, pp 32 - 36 (USSR)

PERIODICAL:

ABSTRACT:

Hydrogenation-desulphurisation over oxide catalysts at 10 - 70 atms pressure of hydrogen, and temperatures of 360 - 420°C is the most effective method for purifying petroleum products. The authors investigated the desulphurisation and dehydrogenation activity of aluminiumcobalt-molybdenum catalyst and defined its optimum chemical composition. Diesel fuel from Romashkinsk petroleum was used in these tests. The composition of the diesel fuel is tabulated. Samples of the catalysts were prepared according to a process similar to that used in industry. Wet aluminium oxide was suspended in aqueous solutions of ammonium molybdate and cobalt

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SOV/65-58-12-7/16
The Effect of the Chemical Composition of an Aluminium-Cobalt-Molybdenum Catalyst on its Activity During Hydropurification and AutoHydropurification Processes
Hydropurification Processes

nitrate. The ter until the pressed. The pressed. The then at 120 - 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried first on air, 4 x 4 mm tablets were dried for and a talyst samples containing 20% of CoO and 18.0% of CoO and 18.0% of CoO and 18.1% McO3 were prescribed and 1.9% CoO and 18.1% McO3 which contained 1.9% CoO and 18.1% McO3 which contained 1.9% CoO and 18.1% McO3 which contained 1.9% CoO and 18.1% McO3 which content of CoO and McO3 varied between 5 and 30%. Afcontent of CoO and McO3 varied between 5 and 30%. Afcontent of CoO and McO3 varied between 5 and 30%. Afcontent of CoO and McO3 varied between 5 and 30%. Afcontent of the hydrogenation of the kerosine fraction between 120 and 240°C containing 0.6% sulphur; this protess was carried out at 330°C, a pressure of 20 atms cess was carried out at 330°C, a pressure of 20 atms rate of the raw material supplied of rate of the raw material supplied of rate of the raw material supplied of rate of the raw material supplied for 24 hours. The same catalyst was sulphonated for 24 hours.

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The Effect of the Chemical Composition of an Aluminium-Cobalt-Molybdenum Catalyst on its Activity During H y d ropurification and Auto-Hydropurification Processes

vity during auto-hydropurification. The initial concentration of hydrogen in the circulating gas equalled 60%. Details on the concentration of hydrogen, temperature, initial pressure etc. are given. The constant pressure and concentration of hydrogen in the circulating gas were determined after 40 - 50 hours. Tables 2 and 3 give data on the desulphurisation and dehydrogenation activity of the catalyst. At constant partial pressure of hydrogen, catalysts containing 1.9 - 8.9% GoO and 18.1 - 10.7% MoO3 have similar activity after desulphurisation. Catalysts containing more than 10% cobalt oxide and less than 10% of molybdenum trioxide were much less effective during desulphurisation. The dehydrogenation activity of the catalyst increases on increasing its molybdenum-trioxide content. Aluminium-molybdenum catalysts were most satisfactory, and aluminium-cobalt catalysts showed less activity. The authors recommend

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The Effect of the Chemical Composition of an Aluminium-Cobalt-Molybderum Catalyst on its Activity During Hydropurification and Auto-Hydropurification Processes

as most unitable catalysts those containing
1.4 - 35 CoO and 13 - 17% Eco3. There are 3 Tables
and 7 References: 4 English, 1 German and 2 Soviet.

ASSOCIATION: VNII NP

Sulimov, Andrey Dmitreyevich

Vydeleniye aromaticheskikh uslevodorodov iz neftyanogo syr'ya

(Extraction of Aromatic Hydrocarbons From Crude Petroleum)

(Extraction of Sostoptekhizdat, 1959. 61 p. (Series: Novaya

tekhnika neftyanoy promyshlennosti) Errata slip inserted.

3,150 copies printed.

Executive Ed.: O. M. Yenisherlova; Tech. Ed.: I. G. Fedotova.

PURPOSE: This booklet is intended for engineers and technicians in refineries and in petroleum and chemical plants. It may also be used by scientific research organizations, laboratories and design institutions associated with the petroleum refining and chemical industries.

COVERAGE: The booklet is devoted to the study and application of new methods of extracting aromatic hydrocarbons from petroleum products by means of azeotropic distillation, extractive

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Extraction of Aromatic (Cont.)

sov/3068

distillation, adsorption and low temperature crystallization. Among these aromatic hydrocarbons benzene, toluene and xylene are widely used in the growing production of synthetic materials. In the opinion of the author, the catalytic extraction of benzene, toluene and xylene has substantially raised the importance of the petroleum refining industry. The author points out that important contributions have been made in this field by Soviet scientists N. D. Zelenskiy, B. L. Moldavskiy, G. D. Kamusher, A. r. Plate, V. I. Karzhev, M. G. Sever'yanov, and A. I. Characteristics of aromatic hydrocarbons, which meet GOST (USSR) requirements are compared with those specified by the ASTM (USA). Experimental results of extracting aromatic hydrocarbons by different pyrolysis methods are shown in numerous tables and are illustrated by graphs. In addition, the author shows flow schemes of the Soviet method of extracting toluene, benzene and xylene distillates, and analyzes procedures for purifying these products and rendering them suitable for marketing. The selection of extraction methods, which under certain conditions can ensure an economical production of above mentioned aromatics,

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Extraction of Aromatic (Cont.)	sov/3068	
is also discussed and some useful suggestions	offered.	:
TABLE OF CONTENTS:	3	
Introduction	6	
Methods of extracting aromatic hydrocarbons	-	
Azeotropic distillation	10	
Extractive distillation	24	•
	30	
Extraction process	38	
Extraction by adsorption		
Choosing a method for extracting aromatic hydro-	carbons	
Card 3/4		·

s/081/51/000/023/047/061 B138/B101

Sulimov, A. D., Zhokhovskaya, T. V., Olevskiy, V. M.

AUTHORS:

TITLE:

Production of p-xylene from petroleum crude

PERIODICAL:

Referativnyy zhurhal. Khimiya, no. 23, 1961, 449, abstract 23M78 (Tr. Vses. Boveshchaniya po khim. pererabotke neft. uglevodorodov v poluprodukty dlya sinteza volokon i plast.

mass, Baku, AN AzerbSSR, 1960, 87 - 96)

TEXT: The article presents the results of laboratory and production trials of a method of obtaining p-xylene (I) from the 115 - 140°C fraction of Paragebbi not release to the following personal archieves are the following personal ar of Romashki petroleum, using the following scheme: aromatization of the fraction over an alumino-molybdenum catalyst, precise rectification of the aromatized product (2006 growstic hydrogarbons) aromatized product (2% aromatic hydrocarbons), azeotropic distillation aromatized product (2% aromatic hydrocarbons) execution (aromatic of the 120 - 145°C fraction with CH₃OH with precise rectification (aromatic hydrocarbons ~75%), to produce a 100% mixture of C8 aromatic hydrocarbons; repeated combined process of low-temperature crystallization of I from the mixture and isomerization of the rest with transformation of the m- and Card 1/2

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\$/081/61/000/019/065/085 B117/B110

11.0130 AUTHORS:

Sulimov, A. D., Lobeyev, M. V., Kozhina, I. N.

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TITLE:

Hydrogenetive refining of distillate fractions from eastern petroleums without introduction of hydrogen from outside

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19. 1961, 421, abstract 19M156 (Sb. "Khimiya sera- i azotorgan. soyedineniy, soderzhashchikhaya v neftyakh i nefteproduktakh". Ufa, v. 3, 1960, 365 - 376)

TEXT: The authors examined the autonydrogenetive refining of distillate fractions from eastern petroleums with the use of an aluminum-cobaltmolybdenum catalyst (KT). It was found that KT with a total content of CoO and MoO3 ranging from 15 to 30% by weight differ only little as to their desulfurization activity. A catalyst with a CoO and MoO, content of 15 - 20% was found to have the maximum dehydrogenating activity. KT with a CoO content of 1.4 - 3.0% and a MoO3 content of 13 - 17% are suited best for achieving autohydrogenetive refining. After examinations in laboratory Card 1/2

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Hydrogenetive refining of ...

plants, the process was carried out on an industrial scale in a plant with an output of 450 m³/24 hr (data for different kinds of raw material are given). It was shown that the degree of desulfurization in autohydrogenetive refining of gasoline-kerosene distillates with an S content of up to 0.8% by weight, which evaporate at 240 - 300°C, is 90 - 95% at an operating time of 800 - 1000 hr. The degree of desulfurization of diesel fractions boiling at 200 - 350°C is 50 - 80% at an operating time of 200 hr. [Abstracter's note: Complete translation.]

Card 2/2

BOYEV, S. N.; SULIMOV, A. D.

New lung nematode Frotostrongylus moschi sp. nov. from a musk deer. Trudy Inst. 2001. AN Kazakh. SSR 16:42-45 '62.

(MIRA 15:10)

(TUVA A.S.S.R.—Nematoda)

(TUVA A.S.S.R.—Parasites—Musk deer)